

Materials List for:

Cutaneous Surgical Denervation: A Method for Testing the Requirement for Nerves in Mouse Models of Skin Disease

Shelby C. Peterson¹, Isaac Brownell^{*2}, Sunny Y. Wong^{*1}

¹Dermatology, Cell and Developmental Biology, University of Michigan

²Dermatology Branch, National Cancer Institute, National Institutes of Health

*These authors contributed equally

Correspondence to: Isaac Brownell at isaac.brownell@nih.gov, Sunny Y. Wong at sunnyw@umich.edu

URL: <https://www.jove.com/video/54050>

DOI: [doi:10.3791/54050](https://doi.org/10.3791/54050)

Materials

Name	Company	Catalog Number	Comments
Alcohol prep pads	PDI	B339	
AnaSed (Xylazine)	Lloyd	NADA 139-236	
Antibody, anti-Keratin 8	Developmental Studies Hybridoma Bank	TROMA-I	rat antibody, use at 1:500 concentration
Antibody, anti-Keratin 17	Cell Signaling	#4543	rabbit antibody, use at 1:1,000 concentration
Antibody, anti-Neurofilament	Cell Signaling	C28E10	rabbit antibody, use at 1:500 concentration
Betadine prep pads	Medline	MDS093917	
Carprofen (Rimadyl)	Zoetis		
Cordless rechargeable clipper	Wahl	trimmer model 8900	
Corn Oil	Sigma-Aldrich	C8267	
Cryostat	Leica	CM1860	
DAPI	ThermoFisher Scientific	D1306	use at 1:1,000 concentration
Deoxycholate	Sigma-Aldrich	D6750	
Depilatory Cream	Nair	N/A	
Dimethylformamide	Sigma-Aldrich	319937	
Dimethyl Sulfoxide (DMSO)	Sigma-Aldrich	D8418	
Glutaraldehyde	Sigma-Aldrich	G5882	
ImmEdge Pen	Vector Laboratories	H-4000	
Ketamine HCl	Hospira	NDC 0409-2051-05	
Magnesium chloride	Sigma	M8266	
Micro cover glass	VWR	48404-454	
Micro Slides	VWR	48311-703	
10% Neutral Buffered Formalin	VWR	BDH0502-4LP	
6-0 nylon sutures	DemeTECH	NL166012F4P	
Octylphenyl-polyethylene glycol	Sigma-Aldrich	I8896	
O.C.T. Compound	Sakura Tissue-Tek	4583	
Paraformaldehyde	Sigma-Aldrich	158127	
Pottasium ferrocyanide	Sigma-Aldrich	P9387	
Pottasium ferricyanide	Sigma-Aldrich	702587	
Sodium phosphate monobasic	Sigma-Aldrich	P9791	
Sodium phosphate dibasic	Sigma-Aldrich	S5136	

Sucrose	Sigma-Aldrich	84097	
Tamoxifen	Sigma-Aldrich	T5648-1G	
Ultra fine forceps	Dumont	0103-5-PO	
Vectashield	Vector Laboratories	H1000	
X-gal	Roche	10 651 745 001	Disolve in dimethylforamide to create 50x stock prior to use